

STATE OF WASHINGTON

Log No. <u>240</u> TAG Rev 8/27/21

STATE BUILDING CODE COUNCIL

Washington State Energy Code Development

Standard Energy Code Proposal Form

Code being amended: Con	nmercial Provisions	Residential Provisions
Code Section # _ C403.5.11 & C40	03.14	
·	•	tdoors. Current language as written requires complex controls correct Commissioning and setpoints.
Proposed code change text: (Copnew text and strikeout for text to	,	he Integrated Draft, linked above, and then use <u>underline</u> for
	be interlocked with the he	perable openings to the outdoors are larger than 40 48 square eating and cooling system as required by Section
Exceptions:		

- 1. Separately zoned areas associated with the preparation of food that contain appliances that contribute to the HVAC loads of a restaurant or similar type of occupancy.
- 2. Warehouses that utilize overhead doors for the function of the occupancy, where approved by the code official.
- 3. The first entrance doors where located in the exterior wall and are part of a vestibule system.
- 4. Alterations to existing buildings.

C403.14 Operable opening interlocking controls. The heating an cooling systems shall have controls that will interlock these mechanical system to meet temperatures of 85F for cooling and 55F for heating when the conditions of Section C402.5.11 exist. The controls shall configure to shut off the systems entirely when the outdoor temperatures are below 85F or above 55F.

C403.14 Operable opening interlocking controls. The heating and cooling systems shall have controls that shut off these mechanical systems when the conditions of Section C402.5.11 exist.

Exception:

1. Hydronic radiant heating and cooling systems.

C403.4.1.6 <u>Door Operable opening</u> switches for HVAC system thermostatic control. <u>Doors Operable openings meeting</u> the minimum sizes per C402.5.11 and that open to the outdoors from a conditioned space must have controls configured to do the following once doors have been open for 5 minutes:

- 1. Disable the mechanical heating to the zone or reset the space heating temperature set point to 55 °F or less within 5 minutes of the door open enable signal.
- 2. Disable the mechanical cooling to the zone or reset the space cooling temperature set point to 85 °F or more within 5 minutes of the door open enable signal.

Exceptions: Hydronic radiant heating and cooling systems.

- 1. Building entrances with vestibules.
- 2. Alterations to existing buildings.
- 3. Loading docks

Purpose of code chang	e	١:
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Simplifies control requirements to limit the use of mechanical heating or cooling when large operable openings are opened. Simplest and cheapest method to limit heat/cool of the outdoors is to shut the system off. Requiring more complicated controls to change the setpoints of mechanical systems is unlikely to be setup correctly and opens the possibility of manipulation after the building is occupied.

Your amendment must meet one of the following criteria. Select at least one:								
Addresses a critic	cal life/safety need.	Consistency with state or federal regulations.						
 The amendment clarifies the intent or application of the code. Addresses a specific state policy or statute. (Note that energy conservation is a state policy) 			Addresses a unique character of the state. Corrects errors and omissions.					
Check the building ty Single family/dup Multi-family 1 – 3	olex/townhome	npacted by your code o Multi-family 4 + s Commercial / Ref	tories					
Your name Your organization Other contact name	•		Email address Phone number	Henry@ecotope.com (206) 596-4715				

Economic Impact Data Sheet

Briefly summarize your proposal's primary economic impacts and benefits to building owners, tenants and businesses.

Simplifies controls to limit heat/cool of the outdoors. Less controls configuration for building owners to understand and maintain.

Provide your best estimate of the construction cost (or cost savings) of your code change proposal? (See OFM Life Cycle Cost <u>Analysis tool</u> and <u>Instructions</u>; use these <u>Inputs</u>. Webinars on the tool can be found <u>Here</u> and <u>Here</u>)

\$0.00/square foot

Show calculations here, and list sources for costs/savings, or attach backup data pages

Zero cost measure.

Provide your best estimate of the annual energy savings (or additional energy use) for your code change proposal?

Click here to enter text.KWH/ square foot (or) Click here to enter text.KBTU/ square foot

Show calculations here, and list sources for energy savings estimates, or attach backup data pages

Unknown.

List any code enforcement time for additional plan review or inspections that your proposal will require, in hours per permit application

This proposal will not substantially impact code review, inspection, or enforcement.